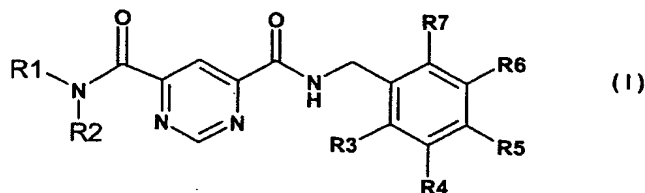


**We Claim:**

1. A compound of the formula I



wherein, for the case a)

R1 is hydrogen or  $-(C_1-C_6)$ -alkyl,

R2 is  $-(C_1-C_6)$ -alkyl, wherein, alkyl is substituted, one, two or three times, by

1.  $-(C_1-C_6)$ -alkyl-O- $(C_6-C_{14})$ -aryl,
2.  $-(C_0-C_6)$ -alkyl-N(R8)-C(O)-O- $(C_1-C_6)$ -alkyl, wherein, R8 is
  - i) hydrogen,
  - ii)  $-(C_1-C_6)$ -alkyl, wherein, alkyl is unsubstituted or substituted, one, two or three times, independently of each other, by  $-NH_2$ ,  $-CN$ ,  $-OH$ ,  $-C(O)-OH$ ,  $-C(O)-O-(C_1-C_6)$ -alkyl,  $-C(O)-NH-OH$ ,  $NO_2$  or halogen, or
  - iii)  $OH$ ,
3.  $-C(O)-N(R9)-(R10)$ , wherein, R9 and R10 are identical or different and are, independently of each other,
  - i) hydrogen or
  - ii)  $-(C_1-C_6)$ -alkyl, or

R9 and R10 form, together with the nitrogen atom to which they are bonded, a 5-, 6- or 7-membered saturated ring, where a heteroatom from the series oxygen, sulfur and nitrogen can also replace one or two further carbon atoms and, in the case of nitrogen, the nitrogen atoms can, independently of each other, be unsubstituted or substituted by  $(C_1-C_6)$ -alkyl,
4.  $-(C_6-C_{14})$ -aryl, wherein, aryl is substituted, one, two or three times, independently of each other, by
  - 4.1)  $-(C_0-C_6)$ -alkyl-C(O)-O-R8, wherein, R8 has the abovementioned meaning,
  - 4.2)  $-(C_0-C_6)$ -alkyl-C(O)-N(R9)-(R10), wherein, R9 and R10 have the abovementioned meaning,
  - 4.3)  $-(C_0-C_6)$ -alkyl-C(O)-NH-CN,

- 5 4.4)  $-(C_0-C_6)\text{-alkyl-C(O)-(C}_0\text{-C}_6\text{)-alkyl-Het}$ , wherein, Het is a saturated or unsaturated, monocyclic or bicyclic, 3- to 10-membered heterocyclic ring system which contains 1, 2 or 3 identical or different ring heteroatoms from the series nitrogen, oxygen and sulfur and is unsubstituted or substituted, one, two or three times, independently of each other, by
- 10 a) halogen,  
b) cyano,  
c) nitro,  
d) hydroxyl,  
e) amino,  
f)  $-C(O)\text{-O-(C}_1\text{-C}_6\text{)-alkyl}$ ,  
g)  $-C(O)\text{-OH}$ ,  
15 h)  $-(C_1-C_6)\text{-alkyl}$ , wherein, alkyl is unsubstituted or substituted, one, two or three times, by halogen,  
i)  $-O\text{-(C}_1\text{-C}_6\text{)-alkyl}$ , wherein, alkyl is unsubstituted or substituted, one, two or three times, by halogen, or  $-N(R_9)\text{-(R}_{10}\text{)}$ ,  
20 j)  $=O$ ,  
k)  $-\text{Het}$ ,  
l)  $-(C_2-C_6)\text{-alkenyl}$ , wherein, alkenyl is unsubstituted or substituted, one, two or three times, by halogen, or  $-N(R_9)\text{-(R}_{10}\text{)}$ , or  
25 m)  $-(C_2-C_6)\text{-alkynyl}$ , wherein, alkynyl is unsubstituted or substituted, one, two or three times, by halogen or  $-N(R_9)\text{-(R}_{10}\text{)}$ ,
- 30 4.5)  $-(C_0-C_6)\text{-alkyl-C(O)-(C}_0\text{-C}_6\text{)-alkyl-OH}$ ,  
4.6)  $-O\text{-(C}_0\text{-C}_6\text{)-alkyl-C(O)-N(R}_9\text{)-(R}_{10}\text{)}$ , wherein,  $R_9$  and  $R_{10}$  have the abovementioned meaning,  
4.7)  $-S(O)_y\text{-(C}_1\text{-C}_6\text{)-alkyl-C(O)-O-R}_8$ , wherein,  $R_8$  has the abovementioned meaning and  $y$  is 1 or 2,  
4.8)  $-S(O)_z\text{-(C}_1\text{-C}_6\text{)-alkyl-C(O)-N(R}_9\text{)-(R}_{10}\text{)}$ , wherein,  $R_9$  and  $R_{10}$  have the abovementioned meaning and  $z$  is zero, 1 or 2,  
35 4.9)  $-(C_0-C_6)\text{-alkyl-C(O)-N(R}_8\text{)-(C}_0\text{-C}_6\text{)-alkyl-N(R}_9\text{)-(R}_{10}\text{)}$ , wherein,  $R_8$ ,  $R_9$  and  $R_{10}$  have the abovementioned meaning,

- 5 4.10)  $-(C_0-C_6)\text{-alkyl-C(O)-N(R8)-(C}_0\text{-C}_6\text{)-alkyl-Het}$ , wherein, R8 has the abovementioned meaning and Het has the abovementioned meaning and is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 4.11)  $-(C_0-C_6)\text{-alkyl-C(O)-N(R8)-(C}_0\text{-C}_6\text{)-alkyl-(C}_6\text{-C}_{14}\text{)-aryl}$ , wherein, aryl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 10 4.12)  $-(C_0-C_6)\text{-alkyl-N(R9)-(R10)}$ , wherein, R9 and R10 have the abovementioned meaning,
- 4.13)  $-(CH_2)_y\text{-N(R8)-C(O)-(C}_1\text{-C}_6\text{)-alkyl}$ , wherein, alkyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m) and y is 1 or 2,
- 15 4.14)  $-(C_0-C_4)\text{-alkyl-N(R8)-C(O)-(C}_0\text{-C}_6\text{)-alkyl-(C}_6\text{-C}_{14}\text{)-aryl}$ , wherein, aryl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 20 4.15)  $-(C_0-C_4)\text{-alkyl-N(R8)-C(O)-(C}_0\text{-C}_6\text{)-alkyl-Het}$ , wherein, Het is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 25 4.16)  $-(C_0-C_4)\text{-alkyl-N(R8)-C(O)-O-(C}_1\text{-C}_6\text{)-alkyl}$ , wherein, alkyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 30 4.17)  $-(C_0-C_4)\text{-alkyl-N(R8)-C(O)-O-(C}_1\text{-C}_6\text{)-alkenyl}$ , wherein, alkenyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 35 4.18)  $-(C_0-C_4)\text{-alkyl-N(R8)-C(O)-O-(C}_1\text{-C}_6\text{)-alkynyl}$ , wherein, alkynyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 4.19)  $-(C_0-C_4)\text{-alkyl-N(R8)-C(O)-O-(C}_0\text{-C}_6\text{)-alkyl-(C}_6\text{-C}_{14}\text{)-aryl}$ , wherein, aryl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),

- 4.20)  $-(C_0-C_4)\text{-alkyl-N(R8)-C(O)-O-(C}_0\text{-C}_6\text{)-alkyl-Het}$ ,  
wherein, Het is unsubstituted or substituted, one, two or  
three times, independently of each other, by the  
abovementioned radicals a) to m),
- 5 4.21)  $-(C_0-C_4)\text{-alkyl-N(R8)-C(O)-(C}_0\text{-C}_6\text{)-alkyl-N(R11)-R12}$ ,  
wherein, R8 has the abovementioned meaning and R11  
and R12 are identical or different and are, independently  
of each other,
- 10 4.21.1) hydrogen,  
4.21.2)  $-(C_1-C_6)\text{-alkyl}$ ,  
4.21.3)  $-(C_0-C_6)\text{-alkyl-(C}_6\text{-C}_{14}\text{)-aryl}$ , wherein, aryl  
is unsubstituted or substituted, one, two or  
three times, independently of each other, by  
the abovementioned radicals a) to m),
- 15 4.21.4)  $-(C_0-C_6)\text{-alkyl-Het}$ , wherein, Het is  
unsubstituted or substituted, one, two or three  
times, independently of each other, by the  
abovementioned radicals a) to m),
- 20 4.21.5)  $-C(O)-(C_1-C_6)\text{-alkyl}$ , wherein, alkyl is  
unsubstituted or substituted, one, two or three  
times, independently of each other, by the  
abovementioned radicals a) to m),
- 25 4.21.6)  $-C(O)-(C_3-C_6)\text{-cycloalkyl}$ , wherein,  
cycloalkyl is unsubstituted or substituted,  
one, two or three times, independently of  
each other, by the abovementioned radicals a)  
to m),
- 30 4.21.7)  $-C(O)-(C_0-C_6)\text{-alkyl-(C}_6\text{-C}_{14}\text{)-aryl}$ , wherein,  
aryl is unsubstituted or substituted, one, two  
or three times, independently of each other,  
by the abovementioned radicals a) to m),
- 35 4.21.8)  $-C(O)-(C_0-C_6)\text{-alkyl-Het}$ , wherein, Het is  
unsubstituted or substituted, one, two or three  
times, independently of each other, by the  
abovementioned radicals a) to m),
- 4.21.9)  $-\text{SO}_2\text{-(C}_0\text{-C}_6\text{)-alkyl}$ , wherein, alkyl is  
unsubstituted or substituted, one, two or three  
times, independently of each other, by the  
abovementioned radicals a) to m),

- 5 4.21.10)  $-\text{NH}-\text{SO}_2-(\text{C}_0-\text{C}_6)\text{-alkyl}$ , wherein, alkyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 4.21.11)  $-\text{SO}_2-(\text{C}_0-\text{C}_6)\text{-alkyl}-(\text{C}_6-\text{C}_{14})\text{-aryl}-(\text{C}_0-\text{C}_6)\text{-alkyl}$ , wherein, aryl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 10 4.21.12)  $-\text{SO}_2-(\text{C}_0-\text{C}_6)\text{-alkyl-Het}$ , wherein, Het is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 15 4.22)  $-(\text{C}_0-\text{C}_4)\text{-alkyl-N(R8)-S(O)}_2\text{-(C}_0-\text{C}_6)\text{-alkyl}-(\text{C}_6-\text{C}_{14})\text{-aryl}$ , wherein, aryl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m) and R8 has the abovementioned meaning,
- 20 4.23)  $-(\text{C}_0-\text{C}_4)\text{-alkyl-N(R8)-S(O)}_2\text{-(C}_0-\text{C}_6)\text{-alkyl-Het}$ , wherein, Het is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m) and R8 has the abovementioned meaning,
- 25 4.24)  $-(\text{C}_0-\text{C}_4)\text{-alkyl-N(R8)-S(O)}_2\text{-N(R8)-(C}_1-\text{C}_6)\text{-alkyl}$ , wherein, alkyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m) and R8 has the abovementioned meaning,
- 30 4.25)  $-(\text{C}_0-\text{C}_4)\text{-alkyl-N(R8)-S(O)}_2\text{-N(R8)-(C}_0-\text{C}_6)\text{-alkyl}-(\text{C}_6-\text{C}_{14})\text{-aryl}$ , wherein, aryl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m) and R8 has the abovementioned meaning,
- 35 4.26)  $-(\text{C}_0-\text{C}_4)\text{-alkyl-N(R8)-S(O)}_2\text{-N(R8)-(C}_0-\text{C}_6)\text{-alkyl-Het}$ , wherein, Het is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m) and R8 has the abovementioned meaning,

- 4.27)  $-(C_0-C_4)\text{-alkyl-N(R8)-C(O)-N(R8)-SO}_2\text{-R13}$ , wherein, R8 has the abovementioned meaning and R13 is  $-(C_1-C_6)\text{-alkyl}$  or  $-(C_0-C_6)\text{-alkyl-(C}_6\text{-C}_{14})\text{-aryl}$ ,
- 5 4.28)  $-(C_0-C_4)\text{-alkyl-S(O)}_2\text{-N(R8)-(C}_0\text{-C}_6)\text{-alkyl-(C}_6\text{-C}_{14})\text{-aryl}$ , wherein, aryl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m) and R8 has the abovementioned meaning,
- 10 4.29)  $-(C_0-C_4)\text{-alkyl-S(O)}_2\text{-N(R8)-(C}_0\text{-C}_6)\text{-alkyl-Het}$ , wherein, Het is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m) and R8 has the abovementioned meaning,
- 15 4.30)  $-(C_0-C_4)\text{-alkyl-S(O)}_2\text{-N(R8)-(C}_1\text{-C}_6)\text{-alkyl}$ , wherein, alkyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m) and R8 has the abovementioned meaning,
- 20 4.31)  $-(C_0-C_4)\text{-alkyl-S(O)}_2\text{-(C}_0\text{-C}_6)\text{-alkyl-(C}_6\text{-C}_{14})\text{-aryl}$ , wherein, aryl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 25 4.32)  $-(C_0-C_4)\text{-alkyl-S(O)}_2\text{-(C}_0\text{-C}_6)\text{-alkyl-Het}$ , wherein, Het is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 30 4.33)  $-\text{O-(C}_0\text{-C}_6)\text{-alkyl-Het}$ , wherein, Het is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 35 4.34)  $-(C_0-C_4)\text{-alkyl-Het}$ , wherein, Het is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m), or
- 4.35)  $-\text{phenyl}$ , wherein, the phenyl is unsubstituted or substituted, one, two or three times, by
- 4.35.1) halogen,
- 4.35.2)  $-(C_1-C_6)\text{-alkyl}$ ,
- 4.35.3)  $-\text{O-(C}_1\text{-C}_6)\text{-alkyl}$  or
- 4.35.4)  $-\text{S(O)}_2\text{-R16}$ , wherein, R16 is  $(C_1-C_6)\text{-alkyl}$  or  $-\text{NH}_2$ ,

5. -C(O)-N(R8)-(C<sub>0</sub>-C<sub>6</sub>)-alkyl-(C<sub>6</sub>-C<sub>14</sub>)-aryl wherein, aryl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals 4.1) to 4.35) or 4.4) a) to 4.4) m) and R8 has the abovementioned meaning,
- 5 6. -C(O)-N(R8)-(C<sub>0</sub>-C<sub>6</sub>)-alkyl-Het wherein, Het has the abovementioned meaning and is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals 4.1) to 4.35) or 4.4)a) to 4.4)m) and R8 has the abovementioned meaning, or
- 10 7. -NH-(C<sub>6</sub>-C<sub>14</sub>)-aryl wherein, aryl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals 4.1) to 4.35) or 4.4) a) to 4.4) m), or
- 15 8. -NH-Het wherein, Het has the abovementioned meaning and is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals 4.1) to 4.35) or 4.4) a) to 4.4) m),

- R3, R4, R5, R6 and R7 are identical or different and are, independently of each other,
- 20 1. hydrogen,
2. halogen,
3. -(C<sub>1</sub>-C<sub>6</sub>)-alkyl wherein, alkyl is unsubstituted or substituted, one, two or three times, by halogen,
4. -O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl wherein, alkyl is unsubstituted or substituted, one, two or three times, by halogen, or
- 25 5. -S-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, or

30 R4 and R5 or R5 and R6 form, together with the carbon atoms to which they are in each case bonded, independently of each other, a 5- or 6-membered ring which is aromatic or saturated and contains zero, one or two heteroatoms from the series oxygen, nitrogen or sulfur, wherein, the ring is unsubstituted or is substituted, at one or at several carbon atoms, one or two times, by halogen, and the other radicals R3, R6 and R7 or R3, R4 and R7 have the abovementioned meaning of 1. to 5;

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or wherein, for the case b)

R1 is hydrogen or -(C<sub>1</sub>-C<sub>6</sub>)-alkyl,

R2 is -(C<sub>1</sub>-C<sub>6</sub>)-alkyl, wherein, alkyl is substituted, one, two or three times, by

1. -C(O)-O-R8', wherein, R8' is
- 1.1) hydrogen or
- 1.2) -(C<sub>1</sub>-C<sub>6</sub>)-alkyl,
2. -(C<sub>1</sub>-C<sub>6</sub>)-alkyl-O-R8', wherein, R8' has the abovementioned meaning,
3. -(C<sub>6</sub>-C<sub>14</sub>)-aryl wherein, aryl is substituted, one, two or three times, independently of each other, by
- 3.1) -(C<sub>2</sub>-C<sub>6</sub>)-alkyl-C(O)-O-R8' wherein, R8' has the abovementioned meaning,
- 3.2) -O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl-C(O)-O-R8' wherein, R8' has the abovementioned meaning,
- 3.3) -N(R14)-(R15) wherein, R14 and R15 form, together with the nitrogen atom to which they are bonded, a 5-, 6- or 7-membered saturated ring, wherein, a heteroatom from the series oxygen, sulfur and nitrogen can also replace one or two further carbon atoms and, in the case of nitrogen, the nitrogen atoms can, independently of each other, be unsubstituted or substituted by (C<sub>1</sub>-C<sub>6</sub>)-alkyl,
- 3.4) -(CH<sub>2</sub>)<sub>k</sub>-N(R9')-(R10') wherein, k is 2, 3, 4 or 5 and R9' and R10' are identical or different and are, independently of each other,
- 3.4.1) hydrogen or
- 3.4.2) -(C<sub>1</sub>-C<sub>6</sub>)-alkyl, or
- R9' and R10' form, together with the nitrogen atom to which they are bonded, a 5-, 6- or 7-membered saturated ring, wherein, a heteroatom from the series oxygen, sulfur and nitrogen can also replace one or two further carbon atoms and, in the case of nitrogen, the nitrogen atoms can, independently of each other, be unsubstituted or substituted by (C<sub>1</sub>-C<sub>6</sub>)-alkyl,
- 3.5) -O-(C<sub>2</sub>-C<sub>6</sub>)-alkyl-N(R9')-R10', wherein, R9' and R10' have the abovementioned meaning,
- 3.6) -N(R8')-C(O)-(C<sub>1</sub>-C<sub>6</sub>)-alkyl wherein, alkyl is unsubstituted or substituted, one, two or three times, by
- 3.6.1) halogen,
- 3.6.2) cyano,
- 3.6.3) nitro
- 3.6.4) hydroxyl,
- 3.6.5) amino,



- 3.6.6)  $-\text{C}(\text{O})-\text{O}-(\text{C}_1-\text{C}_6)\text{-alkyl}$ , or  
3.6.7)  $-\text{C}(\text{O})-\text{OH}$ , and  $\text{R}8'$  has the abovementioned meaning,
- 3.7) -phenyl, wherein, phenyl is unsubstituted or substituted, one, two or three times, by
- 3.7.1) halogen,  
3.7.2)  $-(\text{C}_1-\text{C}_6)\text{-alkyl}$ ,  
3.7.3)  $-\text{O}-(\text{C}_1-\text{C}_6)\text{-alkyl}$ ,  
3.7.4)  $-\text{S}(\text{O})_2-\text{R}16'$ , wherein,  $\text{R}16'$  is  $(\text{C}_1-\text{C}_6)\text{-alkyl}$  or  $-\text{NH}_2$ ,
4. Het, wherein, Het is a saturated or unsaturated monocyclic or bicyclic, 3- to 10-membered heterocyclic ring system which contains 1, 2 or 3 identical or different ring heteroatoms from the series nitrogen, oxygen and sulfur and is unsubstituted or substituted, one, two or three times, by
- 4.1) halogen,  
4.2) cyano,  
4.3) nitro,  
4.4) hydroxyl,  
4.5) amino,  
4.6)  $-\text{C}(\text{O})-\text{O}(\text{C}_1-\text{C}_6)\text{-alkyl}$ ,  
4.7)  $-\text{C}(\text{O})-\text{OH}$ ,  
4.8)  $-(\text{C}_1-\text{C}_6)\text{-alkyl}$ , wherein, alkyl is unsubstituted or substituted, one, two or three times, by halogen,  
4.9)  $-\text{O}-(\text{C}_1-\text{C}_6)\text{-alkyl}$ , wherein, alkyl is unsubstituted or substituted, one, two or three times, by halogen,  
4.10) pyridyl, or  
4.11) phenyl, wherein, phenyl is unsubstituted or substituted, at least one time and independently of each other, by a radical from the series halogen,  $-(\text{C}_1-\text{C}_6)\text{-alkoxy}$  and  $-(\text{C}_1-\text{C}_6)\text{-alkyl}$ , and

$\text{R}4$  and  $\text{R}5$  or  $\text{R}5$  and  $\text{R}6$  form, together with the carbon atoms to which they are in each case bonded, independently of each other, a 5- or 6-membered ring which is saturated and contains one or two heteroatoms from the series oxygen, nitrogen or sulfur, where the ring is unsubstituted or substituted, at one or at several carbon atoms, one or two times, by

halogen, and the other radicals R3, R6 and R7 or R3, R4 and R7 are hydrogen,

or a stereoisomer or a mixture of stereoisomers in any ratio of the compound of the formula I, or a pharmaceutically acceptable salt of the compound, stereoisomer or mixture of stereoisomers of the compound;

and a pharmaceutically acceptable carrier;

provided that the unsubstituted benzo[1,3]dioxole ring is excluded.

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2. A compound according to claim 1,

wherein, for the case a),

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R1 is hydrogen or  $-(C_1-C_6)$ -alkyl,

R2 is  $-(C_1-C_6)$ -alkyl, wherein, alkyl is substituted, one, two or three times, by

1.  $-(C_1-C_6)$ -alkyl-O- $(C_6-C_{14})$ -aryl,

2.  $-(C_0-C_6)$ -alkyl-N(R8)-C(O)-O- $(C_1-C_6)$ -alkyl, wherein, R8 is

i) hydrogen,

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ii)  $-(C_1-C_6)$ -alkyl, wherein, alkyl is unsubstituted or substituted,

one, two or three times, independently of each other, by

$-NH_2$ ,  $-CN$ ,  $-OH$ ,  $-C(O)-OH$ ,  $-C(O)-O-(C_1-C_6)$ -alkyl, -

$C(O)-NH-OH$ ,  $NO_2$  or halogen, or

iii)  $-OH$ ,

25

3.  $-C(O)-N(R9)-(R10)$ , wherein, R9 and R10 are identical or different and are, independently of each other,

i) hydrogen, or

ii)  $-(C_1-C_6)$ -alkyl, or

R9 and R10 form, together with the nitrogen atom to which they

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are bonded, a 5-, 6- or 7-membered saturated ring, wherein, a heteroatom from the series oxygen, sulfur and nitrogen can also replace one or two further carbon atoms and, in the case of nitrogen, the nitrogen atoms can, independently of each other, be unsubstituted or substituted by  $(C_1-C_6)$ -alkyl,

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4. phenyl, wherein, phenyl is substituted, one, two or three times, independently of each other, by

4.1)  $-(C_0-C_6)$ -alkyl-C(O)-O-R8, wherein, R8 has the abovementioned meaning,

- 4.2)  $-(C_0-C_6)\text{-alkyl-C(O)-N(R9)-(R10)}$ , wherein, R9 and R10 have the abovementioned meaning,
- 4.3)  $-(C_0-C_6)\text{-alkyl-C(O)-NH-CN}$ ,
- 4.4)  $-(C_0-C_6)\text{-alkyl-C(O)-(C}_0\text{-C}_6\text{)-alkyl-Het}$ , wherein, Het is
- 5 a radical from the group: azepine, azetidine, aziridine, benzimidazole, benzofuran, benzo[1,4]dioxin, 1,3-benzodioxole, 4H-benzo[1,4]oxazine, benzoxazole, benzothiazole, benzothiophene, quinazoline, quinoline, quinoxaline, chroman, cinnoline, 1,2-diazepine, 1,3-
- 10 diazepine, 1,4-diazepine, 1,4-dioxin, dioxole, furan, imidazole, indazole, indole, isoquinoline, isochroman, isoindole, isothiazole, isoxazole, morpholine, 1,2-oxazine, 1,3-oxazine, 1,4-oxazine, oxazole, oxiran, piperazine, piperidine, phthalazine, pyran, pyrazine, pyrazole,
- 15 pyridazine, pyridine, pyrimidine, pyridoimidazole, pyridopyridine, pyridopyrimidine, pyrrole, pyrrolidine, tetrazole, 1,2-thiazine, 1,3-thiazine, 1,4-thiazine, thiazole, thiomorpholine, thiophene, thiopyran, 1,2,3-triazine, 1,3,5-triazine, 1,2,4-triazine, 1,2,3-triazole or 1,2,4-
- 20 triazole, and in which Het is unsubstituted or substituted, one, two or three times, independently of each other, by
- a) halogen,
- b) cyano,
- c) nitro,
- 25 d) hydroxyl,
- e) amino,
- f)  $-C(O)-O-(C_1-C_6)\text{-alkyl}$ ,
- g)  $-C(O)-OH$ ,
- h)  $-(C_1-C_6)\text{-alkyl}$ , wherein, alkyl is unsubstituted or
- 30 substituted, one, two or three times, by halogen,
- i)  $-O-(C_1-C_6)\text{-alkyl}$ , wherein, alkyl is unsubstituted or substituted, one, two or three times, by halogen, or  $-N(R9)-(R10)$ ,
- j)  $=O$ ,
- 35 k)  $-\text{Het}$ , wherein, Het is defined as above,
- l)  $-(C_2-C_6)\text{-alkenyl}$ , wherein, alkenyl is unsubstituted or substituted, one, two or three times, by halogen, or  $-N(R9)-(R10)$ , or

- m)  $-(C_2-C_6)$ -alkynyl, wherein, alkynyl is unsubstituted or substituted, one, two or three times, by halogen or  $-N(R_9)-(R_{10})$ ,
- 4.5)  $-(C_0-C_6)$ -alkyl-C(O)- $(C_0-C_6)$ -alkyl-OH,
- 5 4.6)  $-O-(C_0-C_6)$ -alkyl-C(O)- $N(R_9)-(R_{10})$ , wherein,  $R_9$  and  $R_{10}$  have the abovementioned meaning,
- 4.7)  $-(C_0-C_6)$ -alkyl-C(O)- $N(R_8)-(C_0-C_6)$ -alkyl- $N(R_9)-(R_{10})$ , wherein,  $R_8$ ,  $R_9$  and  $R_{10}$  have the abovementioned meaning,
- 10 4.8)  $-(C_0-C_4)$ -alkyl- $N(R_8)-S(O)_2-(C_0-C_6)$ -alkyl-Het, wherein, Het is defined as above and is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m) and  $R_8$  has the abovementioned meaning,
- 15 4.9)  $-(C_0-C_4)$ -alkyl- $S(O)_2-(C_0-C_6)$ -alkyl- $(C_6-C_{14})$ -phenyl, wherein, phenyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 20 4.10)  $-(C_0-C_6)$ -alkyl-C(O)- $N(R_8)-(C_0-C_6)$ -alkyl-Het, wherein,  $R_8$  has the abovementioned meaning and Het has the abovementioned meaning and is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 25 4.11)  $-(C_0-C_6)$ -alkyl-C(O)- $N(R_8)-(C_0-C_6)$ -alkyl- $(C_6-C_{14})$ -phenyl, wherein, phenyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 4.12)  $-(C_0-C_6)$ -alkyl- $N(R_9)-(R_{10})$ , wherein,  $R_9$  and  $R_{10}$  have the abovementioned meaning,
- 30 4.13)  $-(CH_2)_y-N(R_8)-C(O)-(C_1-C_6)$ -alkyl, wherein, alkyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m) and  $y$  is 1 or 2,
- 35 4.14)  $-(C_0-C_4)$ -alkyl- $N(R_8)-C(O)-(C_0-C_6)$ -alkyl- $(C_6-C_{14})$ -phenyl, wherein, phenyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 4.15)  $-(C_0-C_4)$ -alkyl- $N(R_8)-C(O)-(C_0-C_6)$ -alkyl-Het, wherein, Het is unsubstituted or substituted, one, two or three

- times, independently of each other, by the abovementioned radicals a) to m),
- 5 4.16)  $-(C_0-C_4)\text{-alkyl-N(R8)-C(O)-O-(C}_1\text{-C}_6\text{)-alkyl}$ , wherein, alkyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 10 4.17)  $-(C_0-C_4)\text{-alkyl-N(R8)-C(O)-O-(C}_1\text{-C}_6\text{)-alkenyl}$ , wherein, alkenyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 15 4.18)  $-(C_0-C_4)\text{-alkyl-N(R8)-C(O)-O-(C}_1\text{-C}_6\text{)-alkynyl}$ , wherein, alkynyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 4.19)  $-(C_0-C_4)\text{-alkyl-N(R8)-C(O)-O-(C}_0\text{-C}_6\text{)-alkyl-(C}_6\text{-C}_{14}\text{)-phenyl}$ , wherein, phenyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 20 4.20)  $-(C_0-C_4)\text{-alkyl-N(R8)-C(O)-O-(C}_0\text{-C}_6\text{)-alkyl-Het}$ , wherein, Het is defined as above and is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 25 4.21)  $-(C_0-C_4)\text{-alkyl-N(R8)-C(O)-(C}_0\text{-C}_6\text{)-alkyl-N(R11)-R12}$ , wherein, R8 has the abovementioned meaning and R11 and R12 are identical or different and are, independently of each other,
- 30 4.21.1) hydrogen,
- 4.21.2)  $-(C_1-C_6)\text{-alkyl}$ ,
- 4.21.3)  $-(C_0-C_6)\text{-alkyl-(C}_6\text{-C}_{14}\text{)-phenyl}$ , wherein, phenyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 35 4.21.4)  $-(C_0-C_6)\text{-alkyl-Het}$ , wherein, Het is defined as above and is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),

- 5 4.21.5) -C(O)-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, wherein, alkyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 10 4.21.6) -C(O)-(C<sub>3</sub>-C<sub>6</sub>)-cycloalkyl, wherein, cycloalkyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 15 4.21.7) -C(O)-(C<sub>0</sub>-C<sub>6</sub>)-alkyl-(C<sub>6</sub>-C<sub>14</sub>)-phenyl, wherein, phenyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 20 4.21.8) -C(O)-(C<sub>0</sub>-C<sub>6</sub>)-alkyl-Het, wherein, Het is defined as above and is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 25 4.21.9) -SO<sub>2</sub>-(C<sub>0</sub>-C<sub>6</sub>)-alkyl, wherein, alkyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 30 4.21.10) -NH-SO<sub>2</sub>-(C<sub>0</sub>-C<sub>6</sub>)-alkyl, wherein, alkyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 35 4.21.11) -SO<sub>2</sub>-(C<sub>0</sub>-C<sub>6</sub>)-alkyl-(C<sub>6</sub>-C<sub>14</sub>)-phenyl-(C<sub>0</sub>-C<sub>6</sub>)-alkyl, wherein, phenyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 4.21.12) -SO<sub>2</sub>-(C<sub>0</sub>-C<sub>6</sub>)-alkyl-Het, wherein, Het is defined as above and is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),
- 4.22) -O-(C<sub>0</sub>-C<sub>6</sub>)-alkyl-Het, wherein, Het is defined as above and is unsubstituted or substituted, one, two or three

times, independently of each other, by the abovementioned radicals a) to m), or

4.23)  $-(C_0-C_4)$ -alkyl-Het, wherein, Het is defined as above and is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to m),

5.  $-C(O)-N(R_8)-(C_0-C_6)$ -alkyl-phenyl, wherein, phenyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals 4.1) to 4.23) or 4.4) a) to 4.4) m) and  $R_8$  has the abovementioned meaning, or

6.  $-C(O)-N(R_8)-(C_0-C_6)$ -alkyl-Het, wherein, Het is azepine, azetidine, aziridine, benzimidazole, benzofuran, benzo[1,4]dioxin, 1,3-benzodioxole, 4H-benzo[1,4]oxazine, benzoxazole, benzothiazole, benzothiophene, quinazoline, quinoline, quinoxaline, chroman, cinnoline, 1,2-diazepine, 1,3-diazepine, 1,4-diazepine, 1,4-dioxin, dioxole, furan, imidazole, indazole, indole, isoquinoline, isochroman, isoindole, isothiazole, isoxazole, morpholine, 1,2-oxazine, 1,3-oxazine, 1,4-oxazine, oxazole, oxirane, piperazine, piperidine, phthalazine, pyran, pyrazine, pyrazole, pyridazine, pyridine, pyrimidine, pyridoimidazole, pyridopyridine, pyridopyrimidine, pyrrole, pyrrolidine, tetrazole, 1,2-thiazine, 1,3-thiazine, 1,4-thiazine, thiazole, thiomorpholine, thiophene, thiopyran, 1,2,3-triazine, 1,3,5-triazine, 1,2,4-triazine, 1,2,3-triazole or 1,2,4-triazole, and Het is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals 4.1) to 4.4) or 4.4) a) to 4.4) m) and  $R_8$  has the abovementioned meaning,

$R_3$ ,  $R_4$ ,  $R_5$ ,  $R_6$  and  $R_7$  are identical or different and are, independently of each other,

1. hydrogen,
2. halogen,
3.  $-(C_1-C_6)$ -alkyl, wherein, alkyl is unsubstituted or substituted, one, two or three times, by halogen, or
4.  $-O-(C_1-C_6)$ -alkyl, wherein, alkyl is unsubstituted or substituted, one, two or three times, by halogen, or

R4 and R5 or R5 and R6 form, together with the carbon atoms to which they are in each case bonded, independently of each other, a dioxane, dioxole, dihydrofuran or furan ring, where the ring is unsubstituted or substituted, at one or at several carbon atoms, one or two times, by halogen and the other radicals R3, R6 and R7 or R3, R4 and R7 have the abovementioned meaning of 1. to 4.;

or wherein, for the case b),

- 10        R1        is hydrogen or  $-(C_1-C_4)$ -alkyl,  
      R2        is  $-(C_1-C_4)$ -alkyl, wherein, alkyl is substituted, one, two or three times, by
1.         $-C(O)-O-R8'$ , wherein, R8' is
    - 1.1)        hydrogen or
    - 1.2)         $-(C_1-C_4)$ -alkyl,
  - 15        2.         $-(C_1-C_4)$ -alkyl- $O-R8'$ , wherein, R8' has the abovementioned meaning,
  3.        phenyl, wherein, phenyl is substituted, one, two or three times, independently of each other, by
    - 20        3.1)         $-(C_2-C_4)$ -alkyl- $C(O)-O-R8'$ , wherein, R8' has the abovementioned meaning,
    - 3.2)         $-O-(C_1-C_4)$ -alkyl- $C(O)-O-R8'$ , wherein, R8' has the abovementioned meaning,
    - 3.3)         $-N(R14)-(R15)$  wherein, R14 and R15 form, together with the nitrogen atom to which they are bonded, a radical which can be derived from pyrrolidine, piperidine, pyrazolidine, pyrazine, tetrazine, imidazolidine, piperazine, isoxazolidine, morpholine, isothiazolidine or thiomorpholine, and, in the case of nitrogen, the nitrogen atoms can, independently of each other, be unsubstituted or substituted by  $(C_1-C_4)$ -alkyl,
    - 25        3.4)         $-(CH_2)_k-N(R9')-(R10')$  wherein, k is 2, 3, 4 or 5 and R9' and R10' are identical or different and are, independently of each other,
      - 3.4.1)        hydrogen or
      - 35        3.4.2)         $-(C_1-C_6)$ -alkyl, or

R9' and R10' form, together with a nitrogen atom to which they are bonded, a radical which can be derived from pyrrolidine, piperidine, pyrazolidine, pyrazine,



tetrazine, imidazolidine, piperazine, isoxazolidine, morpholine, isothiazolidine or thiomorpholine, and, in the case of nitrogen, the nitrogen atoms can, independently of each other, be unsubstituted or substituted by (C<sub>1</sub>-C<sub>4</sub>)-alkyl,

3.5) -O-(C<sub>2</sub>-C<sub>6</sub>)-alkyl-N(R<sub>9</sub>')-R<sub>10</sub>', wherein, R<sub>9</sub>' and R<sub>10</sub>' have the abovementioned meaning,

3.6) -N(R<sub>8</sub>')-C(O)-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, wherein, alkyl is unsubstituted or substituted, one, two or three times, by

3.6.1) halogen,

3.6.2) cyano,

3.6.3) nitro

3.6.4) hydroxyl,

3.6.5) amino,

3.6.7) -C(O)-O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, or

3.6.8) -C(O)-OH, and R<sub>8</sub>' has the abovementioned meaning,

3.7) -phenyl, wherein, phenyl is unsubstituted or substituted, one, two or three times, by

3.7.1) halogen,

3.7.2) -(C<sub>1</sub>-C<sub>6</sub>)-alkyl,

3.7.3) -O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, or

3.7.4) -S(O)<sub>2</sub>-R<sub>16</sub>', wherein, R<sub>16</sub>' is (C<sub>1</sub>-C<sub>6</sub>)-alkyl or -NH<sub>2</sub>,

4. Het, wherein, Het is azepine, azetidine, aziridine, benzimidazole, benzofuran, benzo[1,4]dioxin, 1,3-benzodioxole, 4H-benzo[1,4]oxazine, benzoxazole, benzothiazole, benzothiophene, quinazoline, quinoline, quinoxaline, chroman, cinnoline, 1,2-diazepine, 1,3-diazepine, 1,4-diazepine, 1,4-dioxin, dioxole, furan, imidazole, indazole, indole, isoquinoline, isochroman, isoindole, isothiazole, isoxazole, morpholine, 1,2-oxazine, 1,3-oxazine, 1,4-oxazine, oxazole, oxirane, piperazine, piperidine, phthalazine, pyran, pyrazine, pyrazole, pyridazine, pyridine, pyrimidine, pyridoimidazole, pyridopyridine, pyridopyrimidine, pyrrole, pyrrolidine, tetrazole, 1,2-thiazine, 1,3-thiazine, 1,4-thiazine, thiazole, thiomorpholine, thiophene, thiopyran, 1,2,3-triazine, 1,3,5-triazine, 1,2,4-triazine, 1,2,3-triazole or 1,2,4-

triazole, and Het is unsubstituted or substituted, one, two or three times, independently of each other, by

- 5                   4.1) halogen,  
                  4.2) cyano,  
                  4.3) nitro,  
                  4.4) hydroxyl,  
                  4.5) amino,  
                  4.6) -C(O)-O(C<sub>1</sub>-C<sub>6</sub>)-alkyl,  
                  4.7) -C(O)-OH,  
10               4.8) -(C<sub>1</sub>-C<sub>6</sub>)-alkyl, wherein, alkyl is unsubstituted or substituted, one, two or three times, by halogen,  
                  4.9) -O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, wherein, alkyl is unsubstituted or substituted, one, two or three times, by halogen,  
                  4.10) pyridyl, or  
15               4.11) phenyl, wherein, phenyl is unsubstituted or substituted, one, two or three times, independently of each other, by a radical from the series halogen, -(C<sub>1</sub>-C<sub>6</sub>)-alkoxy and -(C<sub>1</sub>-C<sub>6</sub>)-alkyl, and

20               R4 and R5 or R5 and R6 form, together with the phenyl ring and the carbon atoms to which they are in each case bonded, independently of each other, a ring system from the series benzo[1,4]dioxane, 2,3-dihydrobenzofuran and 2,2-difluorobenzo[1,3]dioxole, and the other radicals R3, R6 and R7 or R3, R4 and R7 are hydrogen atom.

25

3. A compound according to claim 1, wherein,

for the case a),

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R1 is hydrogen,

R2 is -(C<sub>1</sub>-C<sub>3</sub>)-alkyl, wherein, alkyl is substituted by

35

1. phenyl, wherein, phenyl is substituted, one, two or three times, independently of each other, by

1.1) -CH<sub>2</sub>-C(O)-O-R8, wherein, R8 is hydrogen, methyl, ethyl, propyl or butyl,

1.2) -(C<sub>0</sub>-C<sub>6</sub>)-alkyl-C(O)-N(R9)-(R10), wherein, R9 and R10 are hydrogen, methyl, ethyl, propyl or butyl, or R9 and R10 form, together with the nitrogen atom to which they are bonded, a radical which can be derived

from pyrrolidine, piperidine, pyrazolidine, pyrazine, tetrazine, imidazolidine, piperazine, isoxazolidine, morpholine, isothiazolidine or thiomorpholine, and, in the case of nitrogen, the nitrogen atoms can, independently of each other, be unsubstituted or substituted by (C<sub>1</sub>-C<sub>4</sub>)-alkyl,

1.3) -(C<sub>0</sub>-C<sub>4</sub>)-alkyl-C(O)-NH-CN,

1.4) -O-(C<sub>0</sub>-C<sub>6</sub>)-alkyl-C(O)-N(R<sub>9</sub>)-(R<sub>10</sub>), wherein, R<sub>9</sub> and R<sub>10</sub> have the meaning mentioned above under 1.2),

1.5) -(C<sub>0</sub>-C<sub>6</sub>)-alkyl-C(O)-N(R<sub>8</sub>)-(C<sub>0</sub>-C<sub>6</sub>)-alkyl-N(R<sub>9</sub>)-(R<sub>10</sub>), wherein, R<sub>8</sub>, R<sub>9</sub> and R<sub>10</sub> have the abovementioned meaning,

1.6) -C(O)-N(R<sub>8</sub>)-(C<sub>0</sub>-C<sub>2</sub>)-alkyl-Het, wherein, R<sub>8</sub> has the abovementioned meaning and Het is azepine, azetidine, aziridine, benzimidazole, benzofuran, benzo[1,4]dioxin, 1,3-benzodioxole, 4H-benzo[1,4]oxazine, benzoxazole, benzothiazole, benzothiophene, quinazoline, quinoline, quinoxaline, chroman, cinnoline, 1,2-diazepine, 1,3-diazepine, 1,4-diazepine, 1,4-dioxin, dioxole, furan, imidazole, indazole, indole, isoquinoline, isochroman, isoindole, isothiazole, isoxazole, morpholine, 1,2-oxazine, 1,3-oxazine, 1,4-oxazine, oxazole, oxirane, piperazine, piperidine, phthalazine, pyran, pyrazine, pyrazole, pyridazine, pyridine, pyrimidine, pyridoimidazole, pyridopyridine, pyridopyrimidine, pyrrole, pyrrolidine, tetrazole, 1,2-thiazine, 1,3-thiazine, 1,4-thiazine, thiazole, thiomorpholine, thiophene, thiopyran, 1,2,3-triazine, 1,3,5-triazine, 1,2,4-triazine, 1,2,3-triazole or 1,2,4-triazole, and Het is unsubstituted or substituted, one, two or three times, independently of each other, by

a) halogen

b) cyano,

c) nitro,

d) hydroxyl,

e) amino,

f) -C(O)-O-(C<sub>1</sub>-C<sub>4</sub>)-alkyl,

g) -C(O)-OH,

h) -(C<sub>1</sub>-C<sub>4</sub>)-alkyl, wherein, alkyl is unsubstituted or substituted, one, two or three times, by halogen,

- i) -O-(C<sub>1</sub>-C<sub>4</sub>)-alkyl, wherein, alkyl is unsubstituted or substituted, one, two or three times, by halogen, or
- 5 1.7) -C(O)-N(R8)-(C<sub>0</sub>-C<sub>4</sub>)-alkyl-phenyl, wherein, phenyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to i),
- 10 1.8) -CH<sub>2</sub>-N(R9)-(R10), wherein, R9 and R10 have the abovementioned meaning,
- 1.9) -(CH<sub>2</sub>)<sub>y</sub>-N(R8)-C(O)-(C<sub>1</sub>-C<sub>4</sub>)-alkyl wherein, alkyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to i), and y is 1 or 2,
- 15 1.10) -(CH<sub>2</sub>)<sub>x</sub>-N(R8)-C(O)-(C<sub>0</sub>-C<sub>2</sub>)-alkyl-phenyl, wherein, phenyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to i), and x is 0, 1 or 2,
- 20 1.11) -(CH<sub>2</sub>)<sub>x</sub>-N(R8)-C(O)-(C<sub>0</sub>-C<sub>2</sub>)-alkyl-Het, wherein, Het is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to i), and x is 0, 1 or 2,
- 25 1.12) -(CH<sub>2</sub>)<sub>x</sub>-N(R8)-C(O)-O-(C<sub>1</sub>-C<sub>4</sub>)-alkyl, wherein, alkyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to i), and x is 0, 1 or 2,
- 30 1.13) -(CH<sub>2</sub>)<sub>x</sub>-N(R8)-C(O)-O-(C<sub>0</sub>-C<sub>4</sub>)-alkyl-phenyl, wherein, phenyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to i), and x is 0, 1 or 2,
- 35 1.14) -(CH<sub>2</sub>)<sub>x</sub>-N(R8)-C(O)-O-(C<sub>0</sub>-C<sub>4</sub>)-alkyl-Het wherein, Het is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to i), and x is 0, 1 or 2,
- 1.15) -(CH<sub>2</sub>)<sub>x</sub>-N(R8)-C(O)-N(R11)-R12, wherein, R8 and x have the abovementioned meaning and R11 and R12 are identical or different and are, independently of each other,
- 1.15.1) hydrogen,
- 1.15.2) methyl, ethyl, propyl or butyl,

- 1.15.3)  $-(C_0-C_2)$ -alkyl-phenyl, wherein, phenyl is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to i),
- 5 1.15.4)  $-(C_0-C_2)$ -alkyl-Het, in which Het is unsubstituted or substituted, one, two or three times, independently of each other, by the abovementioned radicals a) to i),
- 1.15.5)  $-C(O)-(C_1-C_4)$ -alkyl,
- 10 1.15.6)  $-C(O)-(C_0-C_2)$ -alkyl-phenyl,
- 1.15.7)  $-C(O)-(C_0-C_2)$ -alkyl-Het,
- 1.15.8)  $-SO_2-(C_1-C_4)$ -alkyl,
- 1.15.9)  $-SO_2-(C_0-C_4)$ -alkyl-phenyl, or
- 1.15.10)  $-SO_2-(C_0-C_2)$ -alkyl-Het,

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R3, R4, R5, R6 and R7 are identical or different and are, independently of each other,

1. hydrogen,
2. halogen,
- 20 3.  $-(C_1-C_6)$ -alkyl, wherein, alkyl is unsubstituted or substituted, one, two or three times, by halogen,
4.  $-O-(C_1-C_6)$ -alkyl in which alkyl is unsubstituted or substituted, one, two or three times, by halogen, or

25

R4 and R5 or R5 and R6 form, together with the carbon atoms to which they are bonded, independently of each other, a dioxane, dioxole, dihydrofuran or furan ring and the other radicals R3, R6 and R7 or R3, R4 and R7 have the abovementioned meaning of 1. to 4.,

30

or wherein, for the case b),

30

R1 is hydrogen,

R2 is  $-(C_1-C_2)$ -alkyl, wherein, alkyl is substituted, one, two or three times, by

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1.  $-C(O)-O-R8'$ , wherein, R8' is
  - 1.1) hydrogen or
  - 1.2)  $-(C_1-C_2)$ -alkyl,
2. phenyl, wherein, phenyl is substituted, one, two or three times, independently of each other, by,
  - 2.1)  $-O-(C_2-C_4)$ -alkyl-N(R9')-R10', wherein, R9' and R10' are, independently of each other, hydrogen, methyl or

ethyl, or R9' and R10' form, together with the nitrogen atom to which they are bonded, a radical which can be derived from pyrrolidine, piperidine, piperazine, morpholine or thiomorpholine, and, in the case of piperazine, the second nitrogen atom can be substituted by methyl or ethyl,

2.2) -O-(C<sub>1</sub>-C<sub>2</sub>)-alkyl-C(O)-O-R8', wherein, R8' is, independently of each other, hydrogen, methyl or ethyl, or

2.3) -N(R14)-(R15) wherein, R14 and R15 form, together with the nitrogen atom to which they are bonded, a radical which can be derived from pyrrolidine, piperidine, pyrazolidine, pyrazine, tetrazine, imidazolidine, piperazine, isoxazolidine, morpholine, isothiazolidine or thiomorpholine, and, in the case of nitrogen, the nitrogen atoms can, independently of each other, be unsubstituted or substituted by methyl or ethyl,

2.4) -(CH<sub>2</sub>)<sub>k</sub>-N(R9')-(R10') wherein, k is 2, 3 or 4 and R9' and R10' are identical or different and are, independently of each other, hydrogen, methyl or ethyl, or

R9' and R10' form, together with the nitrogen atom to which they are bonded, a radical which can be derived from pyrrolidine, piperidine, piperazine, morpholine or thiomorpholine, and, in the case of piperazine, the second nitrogen atom can be substituted by methyl or ethyl, and

R4 and R5 or R5 and R6 form, together with the phenyl ring and the carbon atoms to which they are in each case bonded, independently of each other, a ring system from the series benzo[1,4]dioxane, 2,3-dihydrobenzofuran and 2,2-difluorobenzo[1,3]dioxole, and the other radicals R3, R6 and R7 or R3, R4 and R7 are hydrogen.

4. The compound according to claim 1 wherein, the compound is:

pyrimidine-4,6-carboxylic acid 4-(3-methoxybenzylamide) 6-(4-propylcarbamoyl benzylamide),

pyrimidine-4,6-carboxylic acid 4-(4-isopropylcarbamoylbenzylamide) 6-(3-methoxybenzylamide),

- [4-({[6-(3-methoxybenzylcarbamoyl)pyrimidine-4-carbonyl]amino}methyl)-phenyl]carboxyamino isopropyl ester,
- 5 pyrimidine-4,6-carboxylic acid 4-(3-methoxybenzylamide)  
6-[(2-phenoxyethyl)amide],
- (5-({[6-(3-methoxybenzylcarbamoyl)pyrimidine-4-carbonyl]amino}pentyl)-carboxyamino methyl ester,
- 10 pyrimidine-4,6-carboxylic acid 4-[4-(2-dimethylaminoethylcarbamoyl)-benzylamide] 6-(3-methoxybenzylamide),
- pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzo[1,4]dioxin-6-ylmethyl)-amide] 6-[4-(2-dimethylaminoethylcarbamoyl)benzylamide],
- 15 pyrimidine-4,6-carboxylic acid 4-(3-chloro-4-fluorobenzylamide)  
6-[4-(2-dimethylaminoethylcarbamoyl)benzylamide],
- pyrimidine-4,6-carboxylic acid 4-dimethylcarbamoylmethylamide
- 20 6-(3-methoxybenzylamide),
- [4-({[6-(3-aminobenzylcarbamoyl)pyrimidine-4-carbonyl]amino}methyl)-phenyl]carboxyamino tert-butyl ester,
- 25 pyrimidine-4,6-dicarboxylic acid 4-(3-chlorobenzylamide) 6-(4-fluoro-3-methylbenzylamide),
- pyrimidine-4,6-dicarboxylic acid 4-[(2-chloropyridin-4-ylmethyl)amide]  
6-(4-fluoro-3-methylbenzylamide),
- 30 pyrimidine-4,6-dicarboxylic acid 4-benzylamide 6-(4-fluoro-3-methylbenzylamide),
- pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-[(pyridin-4-ylmethyl)amide],
- 35 pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-(pyridin-3-ylmethyl)amide],

- pyrimidine-4,6-carboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-{4-[2-(4-methylpiperazin-1-yl)-2-oxoethyl]benzylamide},
- 5 pyrimidine-4,6-carboxylic acid 4-(4-fluoro-3-methylbenzylamide)  
6-[4(2-morpholin-4-yl-2-oxoethoxy)benzylamide],
- pyrimidine-4,6-carboxylic acid 4-(4-diethylcarbamoylmethoxybenzylamide) 6-(4-fluoro-3-methylbenzylamide),
- 10 pyrimidine-4,6-carboxylic acid 4-(4-fluoro-3-methylbenzylamide)  
6-[4-(isopropylcarbamoylmethyl)benzylamide],
- pyrimidine-4,6-carboxylic acid 4-(4-fluoro-3-methylbenzylamide)  
6-{4-[(2-morpholin-4-ylethylcarbamoyl)methyl]benzylamide},
- 15 pyrimidine-4,6-carboxylic acid 4-(4-diethylcarbamoylmethylbenzylamide) 6-(4-fluoro-3-methylbenzylamide),
- pyrimidine-4,6-carboxylic acid 4-(4-fluoro-3-methylbenzylamide)  
6-[4-(2-morpholin-4-yl-2-oxoethyl)benzylamide],
- 20 pyrimidine-4,6-carboxylic acid 4-(4-fluoro-3-methylbenzylamide)  
6-[4-(isopropylcarbamoylmethoxy)benzylamide],
- pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-[(pyridin-3-ylmethyl)amide],
- 25 pyrimidine-4,6-carboxylic acid 4-(3-methoxybenzylamide) 6-({[(pyridin-4-ylmethyl)carbamoyl]methyl}amide),
- 30 pyrimidine-4,6-carboxylic acid 4-({[(2-chloropyridin-4-ylmethyl)carbamoyl]-methyl}amide) 6-(3-methoxybenzylamide),
- pyrimidine-4,6-carboxylic acid 4-(3-chloro-4-fluorobenzylamide)  
6-({[(2-chloropyridin-4-ylmethyl)carbamoyl]methyl}amide),
- 35 [4-({[6-(3-methoxybenzylcarbamoyl)pyrimidine-4-carbonyl]amino}methyl)-phenyl]carboxyamino isobutyl ester,



- [4-({[6-(3-methoxybenzylcarbamoyl)pyrimidine-4-carbonyl]amino}methyl)-phenyl]carboxyamino ethyl ester,
- 5 [4-({[6-(3-methoxybenzylcarbamoyl)pyrimidine-4-carbonyl]amino}methyl)-phenyl]carboxyamino allyl ester,
- pyrimidine-4,6-carboxylic acid 4-(3-chloro-4-fluorobenzylamide) 6-[4-(1-methylpiperidin-3-yloxy)benzylamide],
- 10 pyrimidine-4,6-carboxylic acid 4-(3-chloro-4-fluorobenzylamide) 6-({[(pyridin-3-ylmethyl)carbamoyl]methyl}amide),
- pyrimidine-4,6-carboxylic acid 4-(3-methoxybenzylamide) 6-[4-(2-morpholin-4-ylethylcarbamoyl)benzylamide],
- 15 pyrimidine-4,6-carboxylic acid 4-(3-methoxybenzylamide) 6-[4-(2-pyrrolidin-1-yl-ethylcarbamoyl)benzylamide],
- pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzo[1,4]dioxin-6-ylmethyl)amide] 6-[(2'-sulfamoylbiphenyl-2-ylmethyl)amide];
- 20 pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[(thiophen-2-ylmethyl)amide],
- pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[(5-methylfuran-2-ylmethyl)amide],
- 25 pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[(5-methylfuran-2-ylmethyl)amide],
- 30 pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[(5-pyridin-2-ylthiophen-2-ylmethyl)amide],
- pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[(pyridin-3-ylmethyl)amide];
- 35 pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzo[1,4]dioxin-6-ylmethyl)amide] 6-[(pyridin-3-ylmethyl)amide];

- pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzo[1,4]dioxin-6-ylmethyl)amide] 6-[(5-methylfuran-2-ylmethyl)amide],
- 5 pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzo[1,4]dioxin-6-ylmethyl)amide] 6-[(thiophen-2-ylmethyl)amide];
- pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[(5-methylisoxazol-3-ylmethyl)amide],
- 10 pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[(1-methyl-1H-pyrazol-4-ylmethyl)amide],
- pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[(2,5-dimethylfuran-3-ylmethyl)amide];
- 15 pyrimidine-4,6-carboxylic acid 4-[(6-aminopyridin-3-ylmethyl)amide] 6-[(2,3-dihydrobenzofuran-5-ylmethyl)amide];
- pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[(1-methyl-1H-pyrrol-2-ylmethyl)amide],
- 20 pyrimidine-4,6-carboxylic acid 4-[(1H-benzoimidazol-2-ylmethyl)amide] 6-[(2,3-dihydrobenzofuran-5-ylmethyl)amide],
- 25 pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[(pyrazin-2-ylmethyl)amide],
- pyrimidine-4,6-carboxylic acid 4-[(2,2-difluorobenzo[1,3]dioxol-5-ylmethyl)amide] 6-[(pyridin-4-ylmethyl)amide],
- 30 ({6-[(2,3-dihydrobenzo[1,4]dioxin-6-ylmethyl)carbamoyl]pyrimidine-4-carbonyl} amino)acetic acid methyl ester,
- pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[(2-methyl-1H-imidazol-4-ylmethyl)amide],
- 35 pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[(2-pyridin-2-ylethyl)amide],

pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-  
{[3-(4-fluorophenyl)-1H-pyrazol-4-ylmethyl]amide};

5 pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzo[1,4]dioxin-  
6-ylmethyl)amide] 6-[4-(3-dimethylaminopropoxy)benzylamide],

pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzo[1,4]dioxin-  
6-ylmethyl)amide] 6-[4-(2-dimethylaminoethoxy)benzylamide],

10 pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzo[1,4]dioxin-  
6-ylmethyl)amide] 6-[3-(2-dimethylaminoethoxy)benzylamide],

15 pyrimidine-4,6-carboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-  
[(pyridin-4-ylmethyl)amide],

pyrimidine-4,6-dicarboxylic acid 4-(3-chloro-4-fluorobenzylamide) 6-(4-[3'-  
methylsulfonyl]ureidobenzylamide),

20 pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-[4-(4-  
oxopiperidine-1-carbonyl)benzylamide],

pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide)  
6-[4-(4-oxopiperidine-1-carbonyl)benzylamide],

25 pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-  
[4-(4-oxopiperidine-1-carbonyl)benzylamide],

30 pyrimidine-4,6-dicarboxylic acid 4-[4-(4-hydroxypiperidine-1-carbonyl)  
benzylamide] 6-(3-methoxybenzylamide),

pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-  
[4-(4-hydroxypiperidine-1-carbonyl)benzylamide],

35 pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-[4-  
(4-hydroxypiperidine-1-carbonyl)benzylamide],

pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-[4-  
(thiomorpholine-4-carbonyl)benzylamide],

- pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-[4-(thiomorpholine-4-carbonyl)benzylamide],
- 5 pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[4-(thiomorpholine-4-carbonyl)benzylamide],
- pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-[4-(3-oxopiperazine-1-carbonyl)benzylamide],
- 10 pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[4-(3-oxopiperazine-1-carbonyl)benzylamide],
- pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-[4-(3-oxopiperazine-1-carbonyl)benzylamide],
- 15 pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[4-(2-hydroxyethylcarbamoyl)benzylamide],
- pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-[4-(2-hydroxyethylcarbamoyl)benzylamide],
- 20 pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-{4-[(pyridin-4-ylmethyl)carbamoyl]benzylamide},
- 25 pyrimidine-4,6-dicarboxylic acid 4-(4-cyanocarbamoylbenzylamide) 6-(4-fluoro-3-methylbenzylamide),
- pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-[4-(3-morpholin-4-ylpropylcarbamoyl)benzylamide],
- 30 pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[4-(3-morpholin-4-yl-propylcarbamoyl)benzylamide],
- pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-[4-(4-methylpiperazine-1-carbonyl)benzylamide],
- 35 pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-{4-[(pyridin-4-ylmethyl)carbamoyl]benzylamide},

- pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-(4-[3'-methylsulfonyl]ureidobenzylamide),
- 5 pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-(4-[3-methylsulfonyl]ureidobenzylamide),
- pyrimidine-4,6-dicarboxylic acid 4-(4-N-cyanocarbamoylbenzylamide) 6-[(2,3-dihydrobenzofuran-5-ylmethyl)amide],
- 10 pyrimidine-4,6-dicarboxylic acid 4-(4-N-cyanocarbamoylbenzylamide) 6-(3-methoxybenzylamide),
- pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-[4-(morpholine-4-carbonyl)benzylamide],
- 15 pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-(3-[3'-methylsulfonyl]ureidobenzylamide),
- pyrimidine-4,6-dicarboxylic acid 4-(4-hydroxycarbamoylbenzylamide) 6-(3-methoxybenzylamide),
- 20 pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[4-(hydroxycarbamoylmethylcarbamoyl)benzylamide],
- 25 pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[4-(1-methylpiperidin-3-yloxy)benzylamide],
- pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-[4-(2-piperazin-1-ylethylcarbamoyl)benzylamide],
- 30 pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-(4-hydroxycarbamoylbenzylamide),
- pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-(4-hydroxycarbamoylbenzylamide),
- 35 pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-[4-(1-methylpiperidin-3-yloxy)benzylamide],

pyrimidine-4,6-dicarboxylic acid 4-(4-tert-butylcarbamoylbenzylamide) 6-(3-methoxybenzylamide),

5 pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-{4-[methyl-(1-methylpiperidin-4-yl)carbamoyl]benzylamide},

{4-[(6-[(2,3-dihydrobenzofuran-5-ylmethyl)carbamoyl]pyrimidine-4-carbonyl)amino)methyl]benzoylamino}acetic acid,

10 pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-[4-(2-pyrrolidin-1-yl-ethylcarbamoyl)benzylamide],

pyrimidine-4,6-dicarboxylic acid 4-{4-[4-(2-dimethylaminoethyl)piperazine-1-carbonyl]benzylamide} 6-(3-methoxybenzylamide),

15 pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-(4-[3'-methylsulfonyl]ureidobenzylamide),

20 pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-[3-(2-morpholin-4-ylethylcarbamoyl)benzylamide],

[4-({6-(4-fluoro-3-methylbenzylcarbamoyl)pyrimidin-4-carbonyl}amino)-methyl]benzoylamino]acetic acid,

25 pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-[4-(2-piperazin-1-ylacetyl)amino]benzylamide],

pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-[4-(2-morpholin-4-yl-ethylcarbamoyl)benzylamide],

30 [4-({6-(4-fluoro-3-methylbenzylcarbamoyl)pyrimidin-4-carbonyl}-amino)methyl]benzoylamino]acetic acid methyl ester,

35 pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-[3-(morpholine-4-carbonyl)benzylamide],

pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-{4-[(piperidin-4-ylmethyl)carbamoyl]benzylamide},

- pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-[4-(piperidin-4-ylcarbamoyl)benzylamide],
- 5 pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-[4-(piperidin-4-ylcarbamoyl)benzylamide],
- pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-{4-[methyl-(1-methylpiperidin-4-yl)carbamoyl]benzylamide},
- 10 pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-[(4-methyl-3,4-dihydro-2H-benzo[1,4]oxazin-7-ylmethyl)amide],
- pyrimidine-4,6-dicarboxylic acid 4-(4-fluoro-3-methylbenzylamide) 6-{4-[(piperidin-4-ylmethyl)carbamoyl]benzylamide},
- 15 pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-[4-(4-methylpiperazine-1-carbonyl)benzylamide],
- pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-[4-(4-pyridin-4-ylpiperazine-1-carbonyl)benzylamide],
- 20 pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-[4-(2-morpholin-4-ylacetyl amino)benzylamide],
- pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[4-(morpholine-4-carbonyl)benzylamide],
- 25 pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-(4-[p-toluenesulfonyl]ureidobenzylamide),
- 30 pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)-amide] 6-[4-(4-methylpiperazine-1-carbonyl)benzylamide],
- pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[4-(2-pyrrolidin-1-yl-ethylcarbamoyl)benzylamide],
- 35 pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-(4-[3'-phenylsulfonyl]ureidobenzylamide),

- pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[4-(2-morpholin-4-yl-ethylcarbamoyl)benzylamide],
- 5 pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[4-(2-pyrrolidin-1-ylethoxy)benzylamide],
- pyrimidine-4,6-dicarboxylic acid 4-[4-(3-cyclohexanecarbonylureido)-benzylamide]-6-(3-methoxybenzylamide),
- 10 pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-{4-[3-(pyridine-3-carbonyl)ureido]benzylamide},
- pyrimidine-4,6-dicarboxylic acid 4-[4-(3-isobutyrylureido)benzylamide] 6-(3-methoxybenzylamide),
- 15 pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-[4-(2-pyrrolidin-1-ylacetylamino)benzylamide],
- pyrimidine-4,6-dicarboxylic acid 4-[(4-chlorothiophen-2-ylmethyl)amide] 6-[(2,3-dihydrobenzofuran-5-ylmethyl)amide],
- 20 pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-{4-[2-(2-oxo-pyrrolidin-1-yl)acetylamino]benzylamide},
- 25 pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-methyl)amide] 6-[(thiophen-3-ylmethyl)amide],
- pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[(3-methylthiophen-2-ylmethyl)amide],
- 30 pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[(5-methylthiophen-2-ylmethyl)amide],
- pyrimidine-4,6-dicarboxylic acid 4-[4-(2-dimethylaminoacetylamino)-benzylamide] 6-(3-methoxybenzylamide),
- 35 pyrimidine-4,6-dicarboxylic acid 4-[(2,3-dihydrobenzofuran-5-ylmethyl)amide] 6-[4-(2-morpholin-4-ylethoxy)benzylamide],



- pyrimidine-4,6-dicarboxylic acid 4-[4-(3-cyclohexylureido)benzylamide] 6-(3-methoxybenzylamide),
- 5 pyrimidine-4,6-dicarboxylic acid 4-{4-[3-(2,6-dichloropyridin-4-yl)ureido]benzylamide} 6-(3-methoxybenzylamide),
- pyrimidine-4,6-dicarboxylic acid 4-[4-(3-tert-butylureido)benzylamide] 6-(3-methoxybenzylamide),
- 10 [4-({[6-(3-methoxybenzylcarbamoyl)pyrimidine-4-carbonyl]amino}methyl)phenyl]carboxyamino but-2-ynyl ester,
- pyrimidine-4,6-dicarboxylic acid 4-(4-ethanesulfonylaminobenzylamide) 6-(3-methoxybenzylamide),
- 15 pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-[4-(thiophene-2-sulfonylamino)benzylamide],
- pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-[4-(2,2,2-trifluoroethanesulfonylamino)benzylamide],
- 20 [4-({[6-(3-methoxybenzylcarbamoyl)pyrimidin-4-carbonyl]amino}-methyl)phenyl]carboxyamino methyl ester,
- 25 [4-({[6-(3-methoxybenzylcarbamoyl)pyrimidine-4-carbonyl]amino}-methyl)phenyl]carboxyamino prop-2-ynyl ester,
- [4-({[6-(3-methoxybenzylcarbamoyl)pyrimidin-4-carbonyl]amino}methyl)-phenyl]carboxyamino 2-methoxyethyl ester,
- 30 [4-({[6-(3-methoxybenzylcarbamoyl)pyrimidine-4-carbonyl]amino}methyl)-phenyl]carboxyamino 4-fluorophenyl ester,
- pyrimidine-4,6-dicarboxylic acid 4-[4-(3-benzoylureido)benzylamide] 6-(3-methoxybenzylamide),
- 35 [3-({[6-(3-methoxybenzylcarbamoyl)pyrimidine-4-carbonyl]amino}methyl)-phenyl]carboxyamino but-2-ynyl ester,

[3-({[6-(3-methoxybenzylcarbamoyl)pyrimidine-4-carbonyl]amino}methyl)-phenyl]carboxyamino prop-2-ynyl ester,

5 [3-({[6-(3-methoxybenzylcarbamoyl)pyrimidine-4-carbonyl]amino}methyl)-phenyl]carboxyamino isopropyl ester,

pyrimidine-4,6-dicarboxylic acid 4-(3-chloro-4-fluorobenzylamide) 6-[4-(2-pyrrolidin-1-ylethylcarbamoyl)benzylamide],

10 pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-[4-(morpholine-4-carbonyl)benzylamide],

pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-{4-[(pyridin-4-ylmethyl)carbamoyl]benzylamide},

15 pyrimidine-4,6-dicarboxylic acid 4-(3-chloro-4-fluorobenzylamide) 6-(4-diethylcarbamoylbenzylamide),

20 pyrimidine-4,6-dicarboxylic acid 4-(3-chloro-4-fluorobenzylamide) 6-[4-(morpholine-4-carbonyl)benzylamide],

pyrimidine-4,6-dicarboxylic acid 4-(3-chloro-4-fluorobenzylamide) 6-[4-(2-morpholin-4-ylethylcarbamoyl)benzylamide],

25 pyrimidine-4,6-dicarboxylic acid 4-{4-[2-(2,6-dimethylpiperidin-1-yl)-2-oxoethyl]benzylamide} 6-(4-fluoro-3-methylbenzylamide),

pyrimidine-4,6-dicarboxylic acid 4-(3-methoxybenzylamide) 6-[4-(1-methylpiperidin-3-yloxy)benzylamide],

30 pyrimidine-4,6-dicarboxylic acid 4-(4-diethylcarbamoylbenzylamide) 6-(3-methoxybenzylamide),

35 pyrimidine-4,6-dicarboxylic acid 4-[(2-chloropyridin-4-ylmethyl)amide] 6-[(2,3-dihydrobenzofuran-5-ylmethyl)amide],

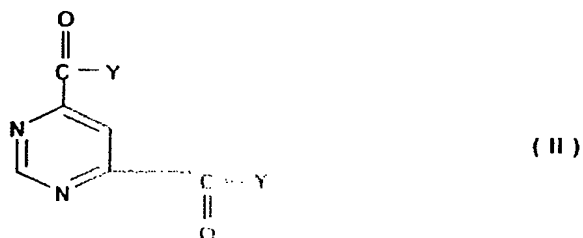
pyrimidine-4,6-dicarboxylic acid 4-(3-chloro-4-fluorobenzylamide) 6-(4-methanesulfonylaminobenzylamide), or

pyrimidine-4,6-dicarboxylic acid 4-(4-methanesulfonylbenzylamide)  
6-(3-methoxybenzylamide).

5. A process for preparing a compound according to claim 1, comprising,

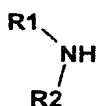
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- a) reacting a compound of formula II

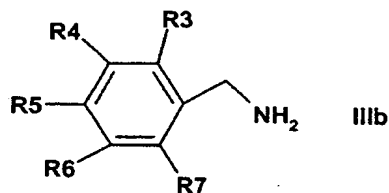


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with a compound of formulas IIIa or IIIb



IIIa



IIIb

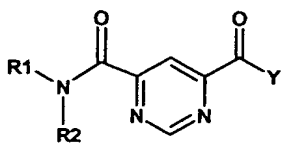
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wherein, R1, R2, R3, R4, R5, R6 and R7 have the meanings given in  
formula I and Y is halogen, hydroxyl or C<sub>1</sub>-C<sub>4</sub>-alkoxy or forms, together  
with the carbonyl group, an active ester or a mixed anhydride, with a  
compound of the formula I being formed, and the reaction products are  
converted, where appropriate, into their physiologically tolerated salts,

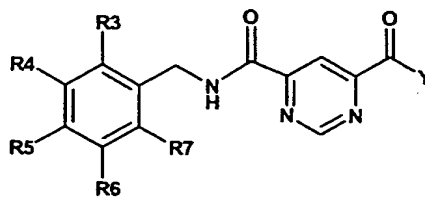
or

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- b) reacting a compound of the formula II with a compound of the formulas  
IIIa or IIIb to give a compound of formulas IVa or IVb



(IVa)



(IVb)

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wherein, R1 to R7 have the meanings given in formula I and Y is halogen, hydroxyl or C<sub>1</sub>-C<sub>4</sub>-alkoxy, or forms, together with the carbonyl group, an active ester or a mixed anhydride, and the compound of the formulas IVa or IVb is purified, where appropriate, and then converted, with a compound of the formulas IIIa or IIIb, into a compound of the formula I.

- 5
6. A pharmaceutical composition comprising a pharmaceutically effective amount of the compound according to claim 1 and a pharmaceutically acceptable carrier.
- 10
7. A method for producing a pharmaceutical for the prophylaxis and therapy of a disease associated with an increase in the activity of matrix metalloproteinase 13, in a patient in need thereof, comprising administering to such patient a pharmaceutically effective amount of a compound according to claim 1.
- 15
8. The method according claim 7, wherein, the disease is a degenerative joint disease, cartilage loss following joint trauma or relatively long joint immobilization following a meniscus or patella injury or a ligament rupture, a disease of the connective tissue, a wound healing disturbance, a chronic disease of the locomotory apparatus or a cancer disease.
- 20
9. The method according to claim 8 wherein, the degenerative joint disease is osteoarthritis or spondylosis.
- 25
10. The method according to claim 8 wherein, the disease of the connective tissue is collagenosis, a periodontal disease, myalgia or a disturbance of bone metabolism.
- 30
11. The method according to claim 8 wherein, the chronic disease of the locomotory apparatus is inflammatory, immunologically-determined or metabolism-determined acute or chronic arthritis or arthropathy.
12. The method according to claim 8 wherein, the cancer disease is breast cancer.